

ABSTRACT

5 The present invention discloses water-soluble
compositions comprising a blend of poly(ethylene oxide) and
poly(vinyl alcohol) that have improved ductility over water-
soluble compositions comprising poly(vinyl alcohol) alone. In
one desirable embodiment of the present invention, the
poly(ethylene oxide) component of the blend is grafted.
10 Grafted poly(ethylene oxide) resins have improved
processability and improved blend compatibility with
poly(vinyl alcohol). Films comprising a melt blend of
poly(vinyl alcohol) and grafted poly(ethylene oxide) have
improved melt processability as well as other improved
properties. Films comprising compositions of the present
15 invention have improved ductility over films comprising
poly(vinyl alcohol) alone while retaining much of the high
strength and water solubility exhibited by such poly(vinyl
alcohol) films.

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